C.G. Edwards & Co., Inc.

Marine & Industrial Supply Catalog

Established 1936

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272 Dorchester Ave
P.O.Box 358, Boston, MA 02127

Tel. 617-268-4111
Fax. 617-268-8845
Web Site: www.cgedwards.com
Email: cgedward@concentric.net

THANKS TO

Catalog Design, Layout and Photography

Mario Elias
Cabographics
Web Site: www.angelfire.com/mt/mito
Email: ginho@hotmail.com
Tel. 617-265-8946

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ABOUT OLD GLORY:

Old Glory- 58 foot yacht, built by Lawley Shipyard in Boston, Massachusetts,
Launched July 3, 1918. Cruised Greenland to Bermuda.
Owners: William Skinner and Viking Gustafson

Products used by Old Glory from C.G.Edwards Co.

Interlux, Perko, Cosby, Devoe Coatings, Hubbel, Rule, Sea Dog, Taylor.

AmSteel®-Blue

12 Strand
UHMWPE-Fiber

Product Code: 830 (Samthane™ coated blue)
Synthetic fiber and rope design and processing technology have continuously made major strides in development to create synthetic rope products that constantly surpass previously established plateaus of performance. The development of ultra high molecular weight polyethylene (UHMWPE) fiber and our tension-set processing procedure has created an added plus to the continuing replacement of wire rope and its associated disadvantages. Based on our processing improvements and the final rope's performance characteristics **we are re-naming Spectron 12 Plus™ to AmSteel®-Blue** which is more reflective of The American Group and the rope's performance.
AmSteel®-Blue is the latest development of UHMWPE fiber in a twelve-strand braided rope utilizing tension-set Parallay™ design with our proprietary blue Samthane™ urethane coating. This twelve-strand braided rope yields the maximum in strength to weight ratio and is stronger than wire rope constructions—yet it floats. The other major advantage AmSteel®-Blue offers is it also has the best flex-fatigue and wear resistance compared to products made of HMWPE or post-drawn HMWPE fibers. The product's light weight, flexibility, and fast, easy splicing make it truly a unique product.

Characteristics

- Maximum strength to weight ratio
- Lowest stretch twelve-strand
- Highest wear and flex-fatigue life
- Non-rotational
- Floats
- Fast and easy to splice
- 40% to 45% stronger than AmSteel®

Applications

- Mooring Lines
- Tug Assist Lines
- Face and Wing Wires
- Seismic Tow Lines
- Winch Lines
- Pulling Lines
- Specialty Rigging Lines
- Wire Rope Replacement

Fiber Content: UHMWPE fiber
Specific Gravity: .98 (Floats)
Elastic Elongation at Percentage of Break Strength:
10% 20% 30%
0.44 0.62 0.79
Water Absorption Fiber: None

AmSteel-Blue
Product Code: 830 Samthane Coated

Size (Dia.)		Size (Circ.)		Weight		Average Strength		Minimum Strength	
Inch	mm	Inch	mm	Lbs/100 Ft.	Kg/100 M	Lbs	Kg	Lbs	Kg
1/4"	6	3/4"	18	1.6	2.38	9200	4173	8280	3756
5/16"	8	1"	24	2.65	3.94	13700	6214	12330	5593
3/8"	9	1-1/8"	27	3.71	5.52	20445	9274	18401	8346
7/16"	11	1-1/4"	33	4.23	6.3	23925	10852	21533	9767
1/2"	12	1-1/2"	36	6.35	9.45	36250	16443	32625	14799
9/16"	14	1-3/4"	42	7.9	11.76	44660	20258	40194	18232
5/8"	16	2"	48	10.61	15.79	59015	26769	53114	24092
3/4"	18	2-1/4"	54	13.31	19.81	69600	31571	62640	28414
13/16"	20	2-1/2"	60	15.84	23.57	81925	37161	73733	33445
7/8"	22	2-3/4"	66	19.61	29.18	98310	44593	88479	40134
1"	24	3"	72	23.43	34.87	116000	52618	104400	47356
1-1/16"	26	3-1/4"	78	27.53	40.97	131300	59558	118170	53602
1-1/8"	28	3-1/2"	84	31.86	47.41	147900	67087	133110	60379
1-1/4"	30	3-3/4"	90	36.23	53.92	165300	74980	148770	67482
1-5/16"	32	4"	96	41.71	62.07	184150	83530	165735	75177
1-1/2"	36	4-1/2"	108	51.7	76.94	227650	103262	204885	92936
1-5/8"	40	5"	120	65.72	97.8	283185	128453	254867	115608
1-3/4"	44	5-1/2"	132	78.35	116.6	334950	151933	301455	136740
2"	48	6"	144	91.4	136.02	380625	172652	342563	155387
2-1/8"	52	6-1/2"	156	109	162.21	456750	207182	411075	186464
2-1/4"	56	7"	168	122	181.56	537443	243784	483698	219406
2-1/2"	60	7-1/2"	180	148	220.25	588000	266717	529200	240045
2-5/8"	64	8"	192	167	248.53	661500	300056	595350	270051
2-3/4"	68	8-1/2"	204	187	278.29	735000	333396	661500	300056
3"	72	9"	216	206	306.57	830550	376737	747495	339064
3-1/4"	80	10"	240	261	388.42	1006950	456753	906255	411077

Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

Tech 120™

12 Strand
Techora-Fiber

Product Code: 847 (Samthane™ coated)
Tech 12™ is a twelve-strand single braid of Technora® fiber with Samthane urethane coating. The product has higher strength and lower stretch than products constructed of other types of high modulus aramid fibers. The Samthane™ coating creates enhanced wear resistance but allows very fast splicing capability. Tech 12™ has extremely good heat resistance and flex fatigue service life. Its extremely high strength and low stretch offer the opportunity of replacing wire rope in static applications.

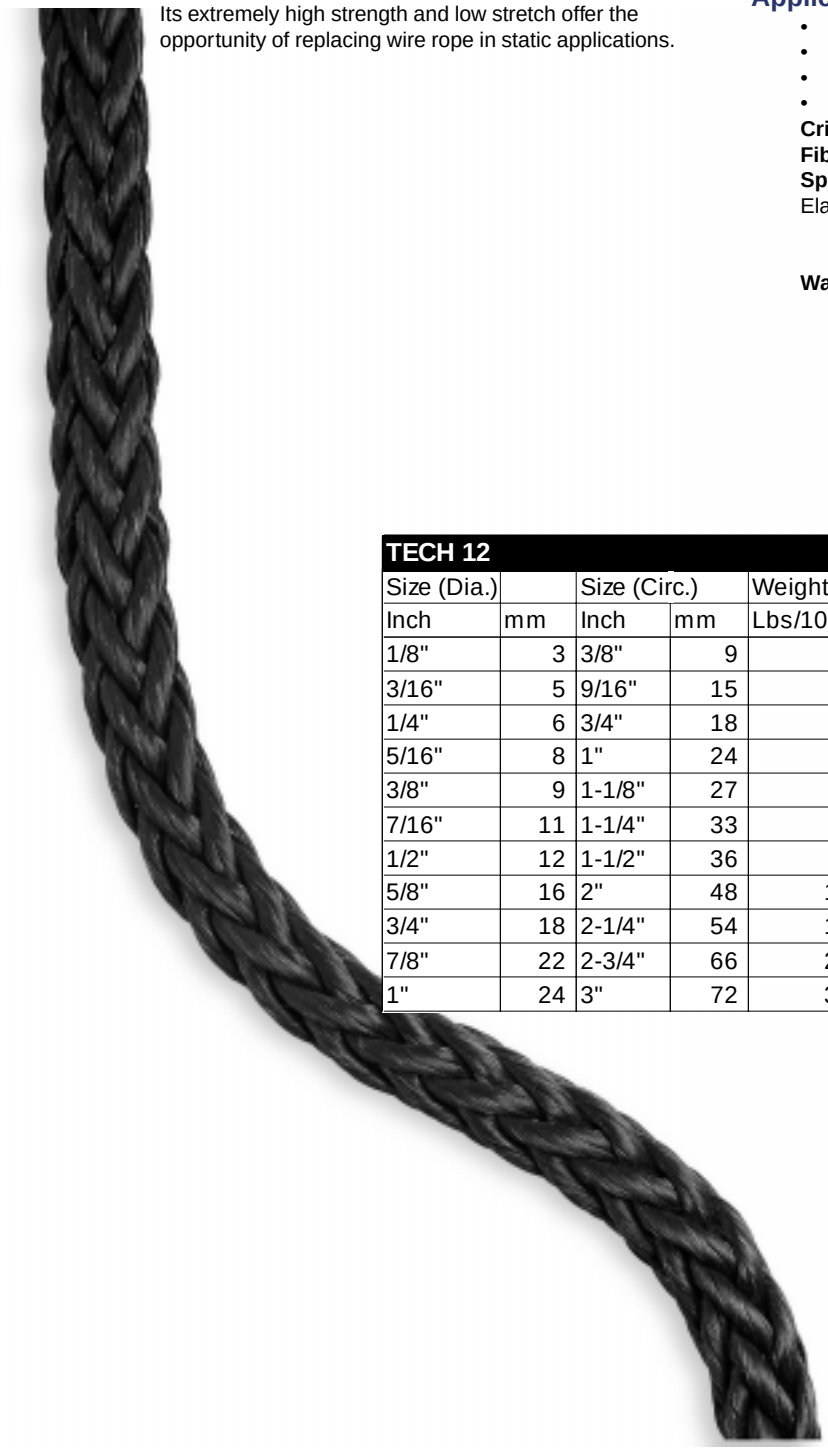
Characteristics

- Negligible creep/cold flow
- High strength and low stretch
- Excellent wear and flexibility
- High heat resistance
- Excellent dielectric properties

Applications

- Specialty Rigging Lines
- Fiber Optic Pulling Lines
- Deep Water Lift Lines
- High Strength Heat Resistant Slings

Critical Temperature: 450° F; 232° C
Fiber Content: **Technora fiber**
Specific Gravity: 1.39
Elastic Elongation at Percentage of Break Strength:
10% 20% 30%
0.63 0.96 1.2
Water Absorption Fiber: None



TECH 12									
Size (Dia.)		Size (Circ.)		Weight		Average Strength		Minimum Strength	
Inch	mm	Inch	mm	Lbs/100 Ft.	Kg/100 M	Lbs	Kg	Lbs	Kg
1/8"	3	3/8"	9	0.6	0.9	2800	1270	2520	1143
3/16"	5	9/16"	15	1.3	1.9	5600	2540	5040	2286
1/4"	6	3/4"	18	1.9	2.8	8150	3697	7335	3327
5/16"	8	1"	24	3.2	4.8	13000	5897	11700	5307
3/8"	9	1-1/8"	27	4.3	6.4	18000	8165	16200	7348
7/16"	11	1-1/4"	33	6.7	10	28000	12701	25200	11431
1/2"	12	1-1/2"	36	8.3	12.4	33000	14969	29700	13472
5/8"	16	2"	48	13.5	20.1	50000	22680	45000	20412
3/4"	18	2-1/4"	54	19.3	28.7	65000	29484	58500	26536
7/8"	22	2-3/4"	66	25.3	37.7	84000	38102	75600	34292
1"	24	3"	72	31.1	46.3	102000	46267	91800	41640

Spectron II

Double Braid Polyester Outside with WMWPE Inside

Product Code: 394 (Uncoated); 816 (Samthane™ coated)
A double braided rope that derives its high strength from a braided high molecular weight polyethylene (HMWPE) fiber core. The braided polyester cover creates a firm rope and serves as abrasion protection to the strength core. This rope has extremely low elongation and is a light weight for wire rope. For added wear life and color identification, Spectron II is available with our Samthane™ coating. Whether coated or uncoated, Spectron II is fully sliceable.

Characteristics

- Excellent dielectric properties
- High strength to weight ratio
- Superior flex fatigue life
- Non-rotational, low stretch rope

Applications

- Utility Winch Lines
- T & D Pulling Lines
- Deep Water Lift Lines
- Fiber Optic Lines
- Alternative to Wire Rope

Fiber Content: Polyester and HMWPE fiber
Specific Gravity: 1.20
Elastic Elongation at Percentage of Break Strength:
10% 20% 30%
0.5 0.67 9.96
Water Absorption Fiber: 1%

SPECTRON II
Product Code: 394 (Uncoated); 816 (Samthane Coated)

Size (Dia.)		Size (Circ.)		Weight		Average Strength		Minimum Strength	
Inch	mm	Inch	mm	Lbs/100	Kg/100 M	Lbs	Kg	Lbs	Kg
1/4"	6	3/4"	18	2.2	3.3	4500	2041	3800	1724
5/16"	8	1"	24	3.5	5.2	7500	3402	6400	2903
3/8"	9	1-1/8"	27	4.1	6.1	9800	4445	8300	3765
7/16"	11	1-1/4"	33	6.1	9.1	11700	5307	9900	4491
1/2"	12	1-1/2"	36	8.3	12.4	15500	7031	13200	5988
9/16"	14	1-3/4"	42	10	14.9	22000	9979	18700	8482
5/8"	16	2"	48	12.6	18.8	27000	12247	23000	10433
3/4"	18	2-1/4"	54	16	23.8	35000	15876	29800	13517
13/16"	20	2-1/2"	60	20.3	30.2	40000	18144	34000	15422
7/8"	22	2-3/4"	66	24.8	36.9	50000	22680	42500	19278
1"	24	3"	72	30.6	45.5	57000	25855	48500	22000
1-1/16"	26	3-1/4"	78	31.7	47.2	59300	26898	50400	22861
1-1/8"	28	3-1/2"	84	37	55.1	72900	33067	62000	28123
1-1/4"	30	3-3/4"	90	42.6	63.4	81000	36742	68900	31253

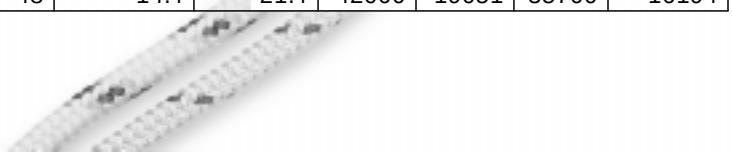
Ultra-Tech™

Double Braid Polyester Outside with Technora Inside

Product Code: 672
Ultra-Tech™ is a double braid rope construction that has its strength and stretch features developed from the braided Technora® core. The braided polyester cover creates a firm flexible working rope and protects the core from external wear. The cover dependent spliced rope develops a very high strength, low stretch, long wearing non-rotational rope. Technora fiber has excellent flex-fatigue life compared to other high modulus aramid fibers while having higher strength and the same high heat resistance.

ULTRA-TECH
Product Code 672

Size (Dia.)		Size (Circ.)		Weight		Average Strength		Minimum Strength	
Inch	mm	Inch	mm	Lbs/100 Ft.	Kg/100 M	Lbs	Kg	Lbs	Kg
3/16"	5	9/16"	15	1.4	2.1	2300	1043	1955	887
1/4"	6	3/4"	18	2.5	3.7	4800	2177	4080	1851
5/16"	8	1"	24	3.8	5.7	7800	3538	6630	3007
3/8"	9	1-1/8"	27	4.8	7.1	10500	4763	8925	4048
7/16"	11	1-1/4"	33	6.7	10	14800	6713	12580	5706
1/2"	12	1-1/2"	36	9.5	14.1	22000	9979	18700	8482
5/8"	16	2"	48	14.4	21.4	42000	19051	35700	16194



Characteristics

- High strength and low stretch
- Flexible non-rotational rope
- Excellent dielectric properties
- Negligible creep/cold flow

Applications

- T & D Pulling Lines
- Lift Lines
- Specialty Rigging Lines

Fiber Content: Polyester and Technora fiber
Specific Gravity: 1.38
Elastic Elongation at Percentage of Break Strength:
10% 20% 30%
0.63 0.97 1.24
Water Absorption Fiber: 1%

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Polyform '5 Fenders: The HTM, F and G Series are at home on any size craft in the harbor.

Whether they're hung vertically or horizontally, from your topsides or on a dock or piling, Polyform fenders excel on any size boat. All are molded in one piece from tough, commercial grade marine vinyls and have the kind of quality finish only Polyform can provide.

F SERIES

Polyform's heavy duty classic European style twin-eye fender/float comes in 11 sizes the widest range of any fenders on the market. These are the strongest fenders Polyform manufactures. They are designed for rough commercial use with the quality that discriminating boaters demand. F Series are standard Classic White Polyform Blue and Red.

Product No.	Diameter Ø*		Circumference		Length *		Eye Diameter		Buoyancy Per Unit		Net Wt. Carton		Units per Weight	Gross Carton		Volume Per	
	in.	cm.	in	cm.	in.	cm.	in.	cm.	lbs.	kg.	lbs.	kg.		lbs.	kg.	ft.³	m³
F-1	6.0	15	18.5	47	25.0	64	0.7	1,8	18	8	2.6	1,2	10	29.0	13,2	1.9	0,05
F-2	9.0	22	27.0	69	25.0	64	0.9	2,2	29	13	4.0	1,8	10	45.0	20,4	3.0	0,09
F-3	9.0	22	27.0	69	30.0	76	0.9	2,2	44	20	5.3.	2,4	10	57.0	25,9	3.8	0,11
F-4	9.0	22	27.0	69	41.0	104	0.9	2,2	77	35	7.5	3,4	5	42.0	19,1	3.8	0,11
F-5	12.0	30	37.0	94	30.0	76	1.0	2,4	99	45	7.0	3,2	5	40.0	18,2	3.0	0,09
F-6	12.0	30	37.0	94	43.0	109	1.0	2,4	165	75	10.2	4,6	5	55.0	25,0	3.8	0,11
F-7	15.0	38	47.0	119	41.0	104	1.0	2,4	209	95	10.6	4,8	5	61.0	27,7	6.2	0,18
F-8	15.0	38	47.0	119	58.0	147	1.0	2,4	330	150	21.1	9,6	4	90.0	40,8	6.2	0,18
F-10	18.5	47	58.0	147	50.0	127	1.0	2,4	396	180	19.6	8,9	2	43.0	19,5	3.0	0,9
F-11	24.0	60	74.0	188	57.0	145	1.1	2,7	530	240	25.3	11,5	3	84.0	38,1	6.2	0,18
F-13	32.0	80	99.0	251	77.0	195	1.2	3,0	1320	600	62.7	28,5	2	137.0	62,2	9.0	0,25

* Normal inflation measurements: 2.1 lbs./0,15 bar of pressure. Temperature at 68° F/20°C.

HTM SERIES

Polyform's Hole-Through-the-Middle (HTM) fender is the finest fender in its class. The HTM is available in 4 sizes. The versatile center rope tube allows the HTM to be hung vertically or horizontally depending on use.
The unique and reliable Polyform valve system allows you to adjust the firmness of the fender to needs. The HTM is offered in attractive Polyform Blue - an appealing marine color, Classic White - for the more traditional yachtsman and in Teal or Black for a more contemporary look. Now also available special order colors: Navy Blue Burgundy and Forest Green.

Product No.	Diameter Ø		Circumference		Length *		Tube Diameter		Buoyancy		Net Wt. Per Unit		Units per Carton	Gross Weigh		Volume Per Carton	
	in.	cm.	in	cm.	in.	cm.	in.	cm.	lbs.	kg.	lbs.	kg.		lbs.	kg.	ft.³	m³
HTM-1	6.0	15,2	18.8	47,8	15.0	38.1	5/8	16	15	7	2.5	1,2	6	18.0	8,2	2.3	0,07
HTM-3	8.0	20,3	25.1	63,8	20.0	50,8	5/8	16	37	17	4.7	2,1	4	21.3	9,7	3.6	0,10
HTM-3	10.0	25,4	31.4	79,8	26.0	66,0	5/8	16	77	35	7.7	3,5	4	35.0	15,9	7.0	0,20
HTM-4	12.0	30,5	38.0	96,5	34.0	86,4	5/8	16	145	66	10.5	4,8	4	51.1	26,1	13.4	0,40

* Normal inflation measurements: 2.1 lbs./0,15 bar of pressure. Temperature at 68° F/20°C.

G SERIES

The G Series fender is more than just a utility fender. It has the strength and aesthetic appeal of molded-in ribbed construction found in more expensive styles. Combine that with Polyform's traditional finish work and you have the G Series in a class all by itself.
All six sizes are inflated and individually tested at the factory. The four largest sizes (G-3, G-4, G-5, G-6 have the added feature of Polyform's unique valving system to adjust firmness to suit the application. These high quality fenders are available in Classic White, Polyform Blue, Teal and Black Neon Red, Yellow and Green are available by special order. Now also available in 3 new special order colors:
Navy Blue, Burgundy and Forest Green.

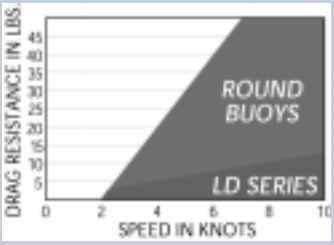
Product No.	Diameter Ø		Circumference		Length *		Eye Diameter		Net Wt. Per Unit		Units per Carton	Gross Weight		Volume Per Carton	
	in.	cm.	in	cm.	in.	cm.	in.	cm.	lbs.	kg.		lbs.	kg.	ft.³	m³
G-1	3.5	8,9	11.0	27,9	13.0	33,0	3/8	0,95	0.7	0,3	12	10.0	4,5	1.2	0,03
G-2	4.5	11.4	14.1	35,8	16.0	40,6	1/2	1,27	1.2	0,5	12	16.5	7,5	2.2	0,06
G-3	5.5	14,0	17.3	43,9	20.0	50,8	5/8	1,59	1.9	0,9	6	14.5	6,6	2.3	0,06
G-4	6.5	16,5	20.4	51,8	23.0	58,4	3/4	1.91	2.6	1,2	6	22.0	10,0	2.9	0,08
G-5	8.5	21,6	26.7	67,8	27.0	68,8	3/4	1,91	4.4	2,0	4	23.3	10,6	4.8	0,14
G-6	10.5	26,7	33.0	83,8	30.0	76,2	7/8	2,22	6.5	3.0	4	27.0	12,3	8.6	0,24

* Normal inflation measurements: 2.1 lbs./0,15 bar of pressure. Temperature at 68° F/20°C.

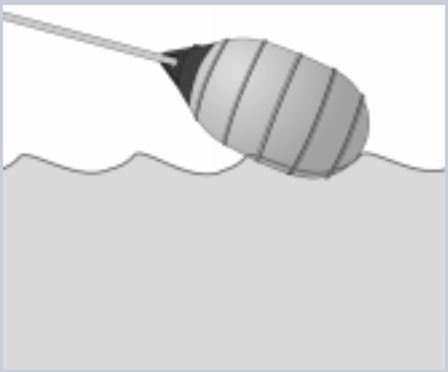
XII	II	III	VII	V	IV	XI	VIII	XIII	XIV
Blue	White	Black	Teal	Saturn Yellow F	Red F	Green F	Forest Green	Burgundy	Navy

F= Fluorescent

Polyform A and LD Series buoys have stood the test of the punishing Alaska crab fishing industry.



Independent testing confirms that the LD created, at most, only 20% of the drag of standard round buoys.
(independently tested by Olympic Scientific, Inc.)



Unique shape and rib design allow the buoy to "skip" along the surface upon retrieval to lower drag.

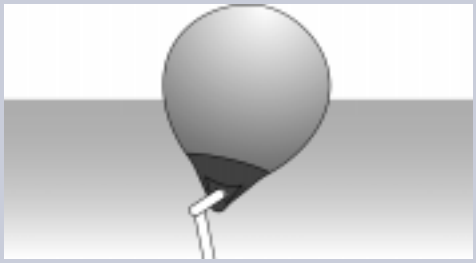
A SERIES

FOR YOUR SAFETY

Your safety is important to us. Over-inflation may cause the product to burst or limit its life. We recommend our Customers study the technical details of the products and fallow our inflation guide. Do not allow children to inflate our products with an air compressor.

BUOYANCY GUIDE

Use Buoyancy as a guide for selection of A or LD series products. Add the total weight of line or chain to be supported and allow for a 30% safety margin.



FENDER GUIDE

Boat Size	Product #	Diameter
up to 25'	A-0	9"/ 23cm
20' to 35'	A-1	11.5"/ 29cm
30' to 45'	A-2	15.5"/ 39cm
40' to 55'	A-3	18.5"/ 47cm
50' to 65'	A-4	21.5"/ 55 cm
60' to 75'	A-5	27.5"/ 70 cm
70' and over	A-6	34"/ 86 cm
30' to 45'	LD-2	12"/ 30cm
40' to 55	LD-3	14.3"/ 36cm

* The Polyform U.S. Fender Guide is to be used as a general guide. The final responsibility has to be taken by the consumer due to the many variables out of Polyform's Control

Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

Work Vest

STEARNS

I460

The Work Boat ™

Heavy-duty flotation vest features two adjustable belts for secure and comfortable fit, leg straps for added safety and improved in-water performance. Oversize armholes for extra working freedom.

- Nylon shell.
- Marine mesh lining.
- 62 sq. in. (400 sq. cm.) of SOLAS-grade reflective panels.

Sizes: S, M, L, XL, XXL, XXXL
Color: International Orange
Approval: USCG Approved Type III

I415/I416

The Deck Hand I/II™

Heavy-duty flotation vest features 10 flotation panels for a flexible, contoured fit. Has rustproof Vislon ® zipper and heavy-duty encircling body belt.

- Side and shoulder adjustments.
- Tough nylon shell.
- Sized for a comfortable fit.
- I416 has 62 sq. in. (400 sq. cm.) of SOLAS-grade reflective panels.

Sizes: S, M, L, XL, XXL, XXXL,4XL/7XL
Color: International Orange
Approval: USCG Approved Type III

I465

The Versatile ™

Stearns best selling, most versatile industrial flotation vest. Tough nylon shell with seven-piece foam design for all-day comfort. Features four roomy pockets with full hook and loop closures and rustproof Vislon ® zipper.

- Multiple foam inserts for exceptional flexibility and freedom.
- Quick-adjust side tabs for secure fit and comfort.
- SOLAS-grade reflective panels.
- Eyelets for attaching STEARNS I900 or I910 rescue light.

Sizes: S, M, L, XL, XXL, XXXL
Color: International Orange (with reflective panels), Forest Green, Tan (without reflective panels - Identified as Model 4165)
Approval: USCG Approved Type III

I100/I102

Merchant Mate I ™

Type I flotation designed to keep most unconscious wearers face-upward. Provides a minimum of 22 lbs. (98 Newtons) of buoyancy (Adult).

- Offshore life jacket. •Reversible for quick donning.
- SOLAS-grade reflective panels.
- Stackable for easy storage.
- Heavy-duty stainless steel hardware.
- Attachment for STEARNS I900 or I910 rescue light.

Sizes: Adult I100 Over 90 lbs. (41 kg.); Child I102 Less than 90 lbs. (41 kg.) Provides minimum of 18 lbs. (80 Newtons) of buoyancy.
Color: International Orange
Approval: USCG Approved Type I

MERCHANT MATE I ™

I223

The Force II ™

Rugged work vest for all-around industrial use. Aquafoam™ flotation foam retains buoyancy even when punctured. Coated with strong, durable PVC.

- Heavy-duty construction.
- Encircling belts with snag resistant buckles.
- SOLAS-grade reflective panels.
- Easy to clean. Sizes: Adult Universal

Color: International Orange
Approval: USCG Approved Type V Work Vest

THE FORCE II ™

I415/I416

The Deck Hand I / II ™

Heavy-duty flotation vest features 10 flotation panels for a flexible, contoured fit. Has rustproof Vislon ® zipper and heavy-duty encircling body belt.

- Side and shoulder adjustments.
- Tough nylon shell. •Sized for a comfortable fit.
- I416 has 62 sq. in. (400 sq. cm.) of SOLAS-grade reflective panels.

Sizes: S, M, L, XL, XXL, XXXL, 4XL/7XL
Color: International Orange
Approval: USCG Approved Type III

THE DECK HAND I / II ™

C. G. Edwards & Co., Inc.
Marine & Industrial Supply Catalog

Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

MRS 56 / 500H (Hazardous Rated Floodlight)

PHOENIX

SPECIAL FEATURES

- Super rough service floodlight for extreme environments is dual UL listed: UL 595 for marine saltwater applications and UL 844 for Class I Division 2 hazardous locations (Suitable for Wet Locations)
- Marine environments: thermoset powder-coated finish resists salt water corrosion; silicone gasket seals out moisture
- Industrial environments: suitable for hazardous locations; tempered lens is heat and impact resistant
- Accepts PAR 56 incandescent lamps for an instant-on light source
- Dual-axis mounting bracket for aiming versatility
- Captive stainless steel exterior hardware and door for easy relamping and maintenance

DURABILITY

- Copper-free cast aluminum housing base and door stand up to harsh weathering for longer life
- Thermoset powder-coated finish resists corrosive effects of salt water environments
- Heavy-duty tempered lens withstands heat and shock
- Multiplane “free-floating” lamp isolation diaphragm absorbs shock and vibration for longer lamp life
- High-temperature silicone gasket seals out dirt and moisture

OPTIONS

- Wire Lens Guard

Applications

- Marine Environments
- Lifeboats & Small Craft
- Hazardous Locations
- Geo-Thermal Plants

Phoenix Sample Specification - MRS 56/500 H

Super-rough, hazardous-rated, halogen/incandescent floodlight. Accepts PAR 56 sealed beam, mogul end prong lamps. UL Listed. Meets Standard 844 - Hazardous Locations! Suitable for Wet Locations! Class I, Division 2/Groups A, B, C, D. Meets Standard 595 Marine Fixture Outside Type (Saltwater). CSA Certified / Luminaire for Hazardous Location! Class I, Division 2/Groups A, B, C, D I Enclosure Type 4X. NRTL: UL 595 and UL 844. Copper-free cast aluminum housing. Captive stainless steel exterior hardware. Silicone gasketing. Thermoset powder-coated finish. Heat-resistant, tempered lens. Multiplane lamp isolation diaphragm. Copper-free aluminum dual axis mounting bracket. Government NSN #: 6230-01-231-7602.

PHOENIX... Durability by Design

Ordering Information

Model	Lens Color	Phoenix Part No
MRS56/5OOH	Clear	1010500
MRS56/5OOHR	Red	1010503
MRS56/5OOHY	Yellow	1010504

MRS 56/ 500H:

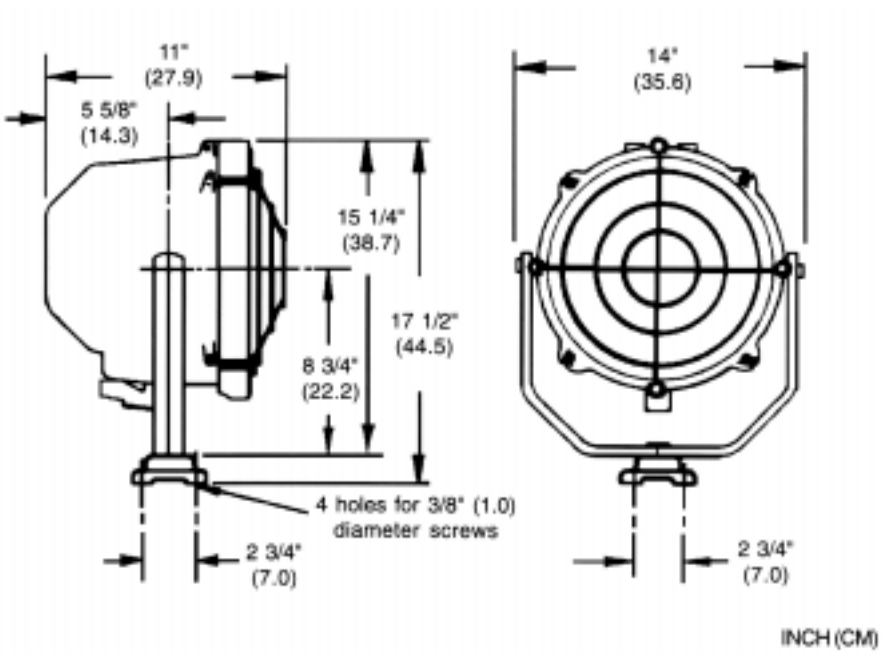
Government NSN # 6230-01-231-7602

Accessories:

Accessory	Phoenix Part No
Wire Lens Guard WG-4	1052200

Lamping Data:

PAR 56 "Mogul End Prong Lamps When ordering lamps please reference Phoenix Part Numbers			Rating NEMA	Candlepower Max. Beam
Lamp Type	**Watts**	**Phoenix Part No**	**Photometric Data**	
Halogen wide flood	300	4200300	4 x 3	7358
Halogen - medium flood	300	4200400	3 x 2	25638
Halogen - narrow spot	300	4200600	2 x 2	56,007
Halogen - wide flood	500	4202500	5 x 3	14,693
Halogen-medium flood	500	4202400	3 x 2	47,163
Halogen-narrow spot	500	4202600	3 x 1	96112



Technical Data

Wiring:

- Splice box with 3/4 NPT tapped hole provided for connections with metal conduit flexible metal conduit or flexible cord in compli ance with Class 1, Div. 2 methods defined in the NEC

Dimensions:

- Width: 14 (35.6 cm)
- Height: 17 1/2 (44.5 cm)
- Depth: 11 (27.9cm)

Fixture Weight: 22 lbs. (10.0 kg)

Color:

- Phoenix Green

Compliances

UL 844 Listed:

Hazardous Location
Suitable for Wet Locations

Class I Division 2
Groups A B Q D
(300 watt max. operating temp. 325 C (617 F)
Groups B C D
(500 wan max operating temp. 450 C (842 F)

UL 595 Listed:

Marine Fixture Outside
Type (Saltwater)

US Coast Guard Accepted

CSA Certified

Luminaires for
Hazardous Locations
Class I Division 2 Enclosure Type 4X
Groups A B C D
(300 watt max operating temp 325 c (617 F)
Groups B C D
(500 watt max operating temp 450 c (842 F)

NRTL: UL 844 (same as UL listings above)
NRTL: UL 595 (same as UL listings above)

C. G. Edwards & Co., Inc.
Marine & Industrial Supply Catalog
Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

GPS 12XL

Fast and accurated "Conopy-Proof" GPS Performance

The GARMIN GPS 12XL is all about performance. It features a 12 channel receiver for amazingly fast satellite acquisition and tight satellite lock, even under tree cover, More than just an ultra-reliable receiver, the GPS 12XL is loaded with navigation information including 106 pre-defined map datums and 7 grid formats, plus advanced orienteering features like position averaging, UTM and user grid formats to define your own map parameters.

The GPS 12XL also allows you to display a graphic symbol and user comment for every waypoint - right on the moving map platter. Map and track log menus let you manage the map display and clear the track log with just a few simple keystrokes.

The GPS 2XL is packed in a rugged , waterproof case that features military tough construction. Its rocker keypad design provides true ore-hand operation, while a user-friendly operating system keeps you on the move day or night, rain or shine.

GARMIN

- ☐ 12 parallel channel receiver tracks and uses up to 12 individual satellites for fast acquisition and tight lock on satellites.
- ☐ User-selectable waypoint symbols and comments enhance map display information.
- ☐ Proximity waypoint feature warns you of approaching hazardous areas.
- ☐ Innovative TracBack™ functions turns your track log into an instant breadcrumb trail to quickly navigate back home.
- ☐ Internal alarm beeper and external antenna capability.
- ☐ User-friendly rocker-keypad system allows room for a large backlit display with easy-to-read characters and full-featured graphic plotting.
- ☐ Position averaging feature helps reduce effects of Selective Availability. Room for 500 waypoints and 20 routes of up to 30 waypoints each.

GPS 12XL

Navigation Features

Waypoints:
- Total: 500
- Nearest: 9 (automatic)
- Proximity: 9

Routes: 20 reversible routes with up to 30 points each, plus MOB and TracBack™ modes

TracBack™: Automatic track log navigation

Track Log: 1024 points

Map Datums: 107 including one User Datum

Coordinates: Lat/Lon. UTM/UPS, plus 7 grids, including Maidenhead and User UTM

Performance

Receiver: PhaseTrac 12™, 12 parallel channel receiver continuously tracks and uses up to twelve satellites to compute and update position

Acquisition Times:
- Warm: Approx. 15 seconds
- Cold: Approx. 45 seconds
- AutoLocate™: Approx. 5 minutes
- EZinit: Easy initialization, 45 seconds

Update Rate: 1/second, continuous

Accuracy:
- Position: 15 meters (49 feet) RMS*
  1-5 meters (3-15 feet) RMS with GARMIN GBR 21 DGPS receiver (optional)

Velocity: 0.1 knot RMS steady state

Dynamics: 6g's

Interfaces: NMEA 0183 and RTCM 104 DGPS corrections

Antenna: Internal patch with MCX connector for external antenna attachment

Power

Source: 4 AA batteries or 10-32vDC

Battery Life: Up to 24 hours

Physical

Size: 2.1" W x 5.8" H x 1.2" D (5.3 x 14.7 x 3.1 cm)

Weigth: 9.5 ounces (269 g) with batteries

Display: 2.2" H x 1.5" W (5.6 x 3.8 cm) high-contrast LCD with three-level backlighting

Case: Ultrasonically welded waterproof to IPX-7 standards

Temp. Range: 5° F 158° F (-15° C to 70° C)

Memory Backup: Internal rechargeable lithium battery

Accessories

Standard:
- GPS 12XL Receiver
- 4 AA Batteries
- Carrying Case
- User's Manual
- Quick Reference Guide
- Wrist Strap

Optional:
- External Antenna
- Swivel Mount Bracket
- Handlebar Mount Bracket
- Data Transfer Cable
- Cigarette Lighter Adapter
- PC Kit

Specification are preliminary and subject to change without notice.

*Subject to accuracy degradation to 100m 2DRMS under the United States Department of Defense imposed Selective Availability Program.

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GARMIN

Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

MARINE BINOCULAR

Since 1926, Swift binoculars have been the reliable, and sometime life-saving companion of professional amateur mariners-and the right arm of sportsmen. A supplier to the Cup Defenders, armed services, and merchant mariners, this category comprises four armored, waterproof binoculars, including our new #716 Sea King with compass and range finding reticle.
All Swith binocular incorporate lenses and prisms of the finest center-pot glass, plus hard amber and/ or magenta coating to reduce reflection and internal glare. Slotted or Chamfered prisms, solidly secured with Phosphor-Bronze clamps, prevent diffusion and anodized bodies of ultra-light alloy.
All are compared with convertible rubber eyecups for easy eyeglass viewing - and all are elegantly gift boxed. Non-armored binoculars are equipped with padded Cordura cases and extra wide woven neck straps (except Aerolite Binocular). Armored binoculars are equipped with rain guards, and optional cases are available.
Models #718 and #718A, however, came complete with a sturdy case and neck strap.

#713 SEA WOLF - ARMORED - WATERPROOF

7x, 50 BCF - (372 ft.) - 33 oz. - R.L.E. 76.5

Micro-central focusing and a smooth rubber covering makes an easy to use, handsome, marine binocular. Immersion tested in one meter of water for five minutes; the Sea Wolf has a field of view of 372 feet at 1,000 yards; a Kellner ocular system; close focusing down to 33 feet; and is magenta, fully coated. Gift Boxed. Height Open - 7"; Height Closed -6.8".

716 ARMORED SEA KING - Waterproof - W/Suunto Compass

7 x 50 B.I.F. - (367ft.) - 44 oz. - R.L.E.84.2

Designed as a night glass for mariners, this waterproof, nitrogen filled binocular is also quipped with a suunto compass which gives bearings for accurate piloting. Above the compass screen, is a vertical and horizontal reticle measuring either distance or object's height, - an instrument very useful in coastal navigation. Fully magenta coated - Rare Earth, or BAK-4, prisms and a high relative light factor of 84.2. Its special characteristics make it also desired by all-weather duck hunters and bird watchers.
Complete with rain guard and woven neck strap - plus, attached objective lens covers. A detachable infra-red compass light (716CL) is available as an extra accessory.

Marine Binocular

753
Wate Proof

718
Wate Proof

737

781A

718 ARMORED OCEANIC

Waterproof- W/Range Finding Reticle
6x, 30 I. F. - (372ft.) - 24 oz. - R.L.E. 41.3

This formula was originally designed for all-weather use by artillery officers in the field. It could be used equally well on a tossing deck in the rain. Waterproof, nitrogen filled and rubber armored - it is also equipped with a vertical and horizontal reticle for gauging height or distance. Its Erfle optical system gives a field of 372 feet at 1000 yards - and its compact size makes it easy to hold and use. Equipped with rain guards and woven neck strap - this binocular is also supplied with a rugged case.

753 ARMORED SEA HAWK - Waterproof

7x, 50 I.F. - (393 ft.) - 42 oz. - R. L.E. 84.2

The “Hawk of the Sea” - even rain doesn’t ruffle the feathers of this nitrogen-filled, waterproof glass - and its rubber’ armor makes it shock resistant, Its large 7.14mm exit pupil and high R.L.E. of 842 deliver tremendous light transmission. Also recommended for duck hunters and bird watchers.

781 ARMORED AEROLITE

7x,50 ZCF - (372 ft.) - 24 oz. - R.L.E. 76.4

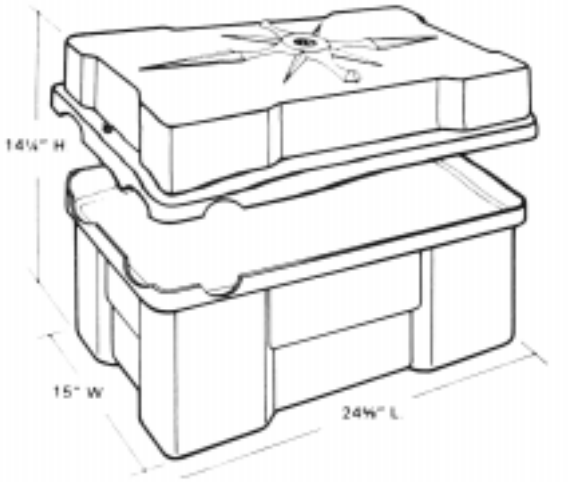
Because this rugged and handsomely executed instrument provides especially fine performance in low visibility, it is sought by mariners. Soft rubber armor makes it easy to hold, and its extra large central focusing wheel allows extra fine focus adjustment. The unit weighs 25 ounces and has an eye relief of 16mm. Extra wide interpupillary adjustment is from 58 to 72mm. Complete with padded, pouch-type case and gift box.

781A ARMORED AEROLITE

7x, 50 Z.C.F. - (372 ft.) - 32 oz. - R.L.E. 76.4

A marvelous glass for use when in low-visibility situations - making it perfect for the mariner or police officer. The 781 binocular is encased in black rubber armor to increase its ruggedness and moisture resistance. An exceptionally large 7.14 exit pupil and a high relative light efficiency give this binocular extraordinary light gathering properties that enable you/to see details that are ordinarily hidden with most binoculars. This glass features magenta coating and close focusing down to 20 feet. Comes complete with double rainguards and black square vinyl case and neck strap.

Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845



Battery Case 12750 High Lid 8D

Part No. T.I. 12750

DIMENSIONS:

Outside:

Maximum Height: 14-1/4”

Maximum Width: 15”

Maximum Length: 24-5/8”

Inside:

Minimum Height: 12-3/4”

Minimum Width: 11-1/2”

Minimum Length: 21-1/4”

SHIPPING:

Standard weight approx. 12 lbs.

Poly wrapped

Individual cartoned

Color Navy Grey

Price and specifications subject to change without notice

STANDARD FEATURES

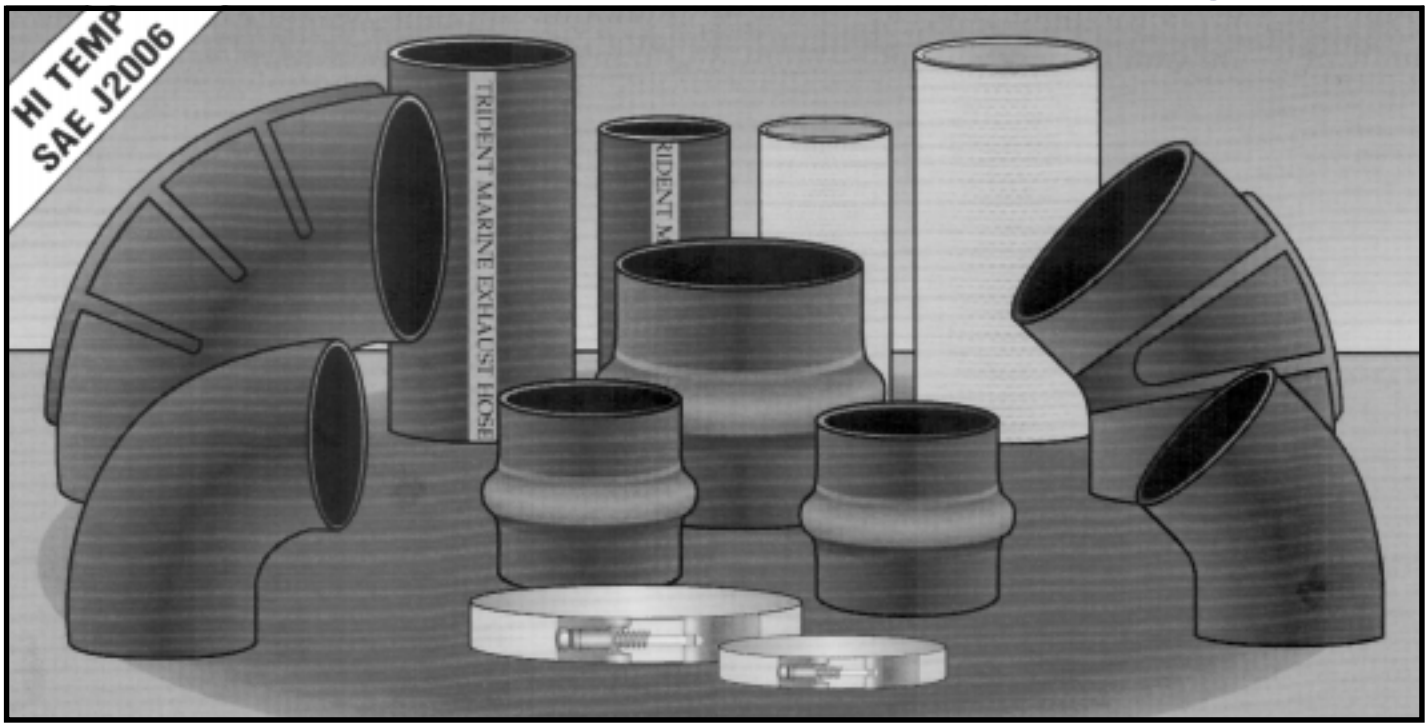
- Meets Coast Guard regulations
- Full flow ventilation
- Positive hold down inserts
- Rust and corrosion proof
- Seamless construction
- Impact resistant
- Impervious to electrolyte, grease, oil and cleaning solvents

Rotationally molded of premium grade Hi Density Polyethylene, these rugged cases maintain their super tough impact properties in climates down to -40˚E Their seamless, heavy wall construction, combined with superior chemical resistance, ends worries of electrolyte spills or contact with grease, oil, etc. The full flow ventilation features help assure adequate cooling and will enhance the longevity of battery life.

When properly installed, these products comply with United States Coast Guard Code of Federal Regulations 33 Sub Chapter 183.420.

TRACY International

Trident Marine Wet Exhaust Systems



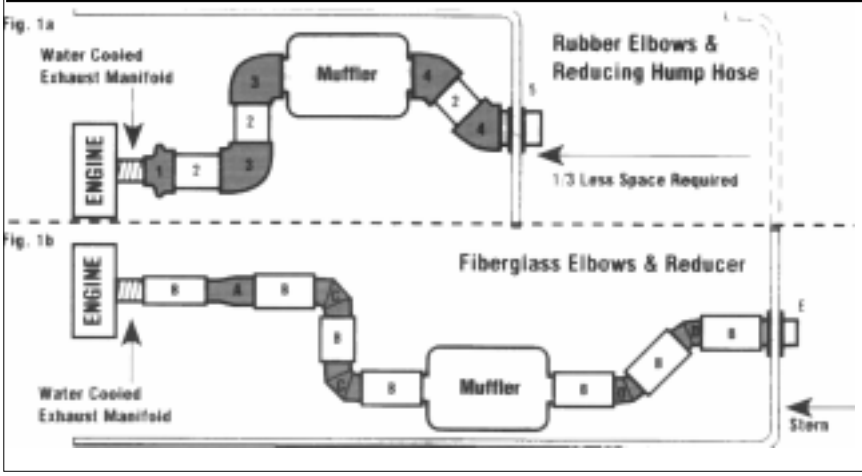
REDUCE Cost, Parts, Labor, Space Requirement, Back Pressure and Noise.

INCREASE Tolerance to Heat, Movement, Vibration, Misalignment and System Fatigue.

with Flexible Rubber Wet Exhaust Elbows and Hump Hoses

- Rubber elbows cost less (approximately 1/2 of comparable fiberglass component).
- 1/3 less parts (elbows, hoses, F/G tubing, clamps, etc.) labor and space required for Marine Exhaust (M.E.) systems.
- Less exhaust back pressure occurs with less parts, shorter assembly and smooth round turns.
- Compensates for typical misalignment in M.E. system.
- Special high temperature rubber has higher heat resistance (+250: to -70°F, max continuous).
- Flexible rubber elbows and hump hoses absorb much more engine movement, vibration and noise than rigid components. This prolongs life of the marine exhaust system and the boat.
- Meets New Marine Exhaust Hose Standards
- (SAE J2006, ABYC PI, NMMA Certification) required for 1997.
- Available with stainless steel T-bolt clamps.
- New 5 Year Warranty, Made in USA.

Compare Wet Exhauster Installation



	Parts Used	
1	Reducing Hump Hose	1
2	F/G Tube Connector	3
3	90˚ Rubber Elbow	2
4	45˚ Rubber Elbow	2
5	Thru Hull Fitting	1
	Muffler	1
	Clamps	20
		Total 30 Parts

A	F/G Reducer	1
B	M.E. Hose	7
C	F/G 90˚ Elbow	2
D	F/G 45˚ Elbow	2
E	Thru Hull Fitting	1
	Muffler	1
	Clamps	28
		Total 42 Parts

Note: Fig. 1a shows that a M.E. installation with Rubber Elbows and Reducing Hump Hose can be made with 1/3 less parts, space requirement and labor than Fig. 1b using fiberglass elbows,etc.

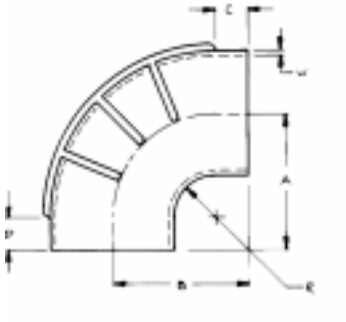
Phone: 617-268-4111/4112 **Internet:** www.cgedwards.com
Email: cgedward@concentric.net **Fax:** 617-268-8845

Meets New Marine Exhaust Hose Standard (SAE J2006, ABYC P1, NMMA Certification)

All Elbows over 5" I.D. are ribbed for added support.

HI TEMP

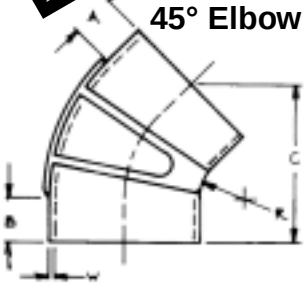
90° Elbow



Part No.	I.D	A.	B	C	D	R	W
TRL290	2.00	4.50	5.50	2.00	1.75	2.00	.20
TRL2590	2.50	4.25	4.25	1.75	1.75	2.00	.20
TRL390	3.00	5.25	5.25	1.75	1.50	2.00	.25
TRL3590	3.50	5.50	5.50	1.75	1.50	2.00	.25
TRL4390	4X3	4.50	3.00	1.50	1.75	1.00	.18
TRL43590	4X3.5	5.75	5.75	1.75	1.50	2.00	.25
TRL490	4.00	5.75	5.75	1.75	1.50	2.00	.25
TRL4590	4.50	6.00	6.00	1.75	1.50	1.75	.25
TRL590	5.00	6.00	6.00	1.75	1.62	1.75	.25
TRL5490	5X4	8.25	3.50	1.19	1.50	2.75	.28
TRL6590	6X5	7.00	6.25	1.50	1.70	1.50	.31
TRL690	6.00	7.00	7.00	2.25	2.00	1.75	.25
TRL690 EL	6.00	12.19	9.10	2.00	2.00	2.00	.25
TRL890	8.00	8.50	8.50	2.00	2.25	2.12	.37
TRL890 EL	8.00	8.50	10.00	3.50	2.25	2.12	.37
TRL1090	10.00	10.50	10.50	2.25	2.25	3.12	.37

HI TEMP

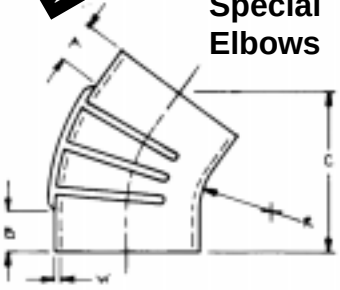
45° Elbow



Part No.	I.D	A.	B	C	R	W
TRL345	3.00	1.50	1.50	5.50	2.00	.25
TRL3545	3.50	1.50	1.50	5.50	2.00	.25
TRL445	4.00	1.50	1.50	5.50	2.00	.25
TRL4545	4.50	1.50	1.50	5.75	1.75	.25
TRL545	5.00	1.62	1.62	5.25	1.75	.25
TRL645	6.00	2.00	2.00	6.50	1.75	.25
TRL845	8.00	2.25	2.25	8.25	2.12	.37
TRL1045	10.00	2.25	2.25	10.50	3.12	.37

HI TEMP

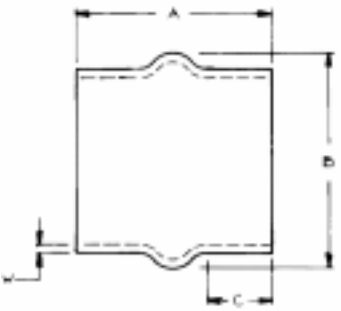
Special Elbows



Part No.	DEG.	I.D.	A	B	C	R	W
TRL422	22	4.00	1.50	1.50	4.50	1.75	.25
TRL4568	68	4.50	1.50	1.50	6.75	1.75	.25
TRL622	22	6.00	1.75	1.75	5.25	1.75	.25
TRL638	38	6.00	2.30	2.30	7.25	.75	.25
TRL654	54	6.00	1.50	1.50	7.50	2.50	.25
TRL668	68	6.00	1.75	1.75	8.50	4.00	.25
TRL863	63	8.00	2.00	2.00	11.00	1.25	.37

HI TEMP

Hump Hose



Part No.	I.D	A.	B	C	W
THH3	3.00	5.25	4.50	2.00	.25
THH35	3.50	5.25	5.00	2.00	.25
THHR353	3.50x3.00	5.25	5.00	2.12	.25
THH4	4.00	5.25	5.37	2.00	.25
THHR43	4.00x3.00	5.25	5.50	1.50	.25
THH45	4.50	5.25	5.87	1.75	.25
THH5	5.00	6.0 0	6.12	2.25	.25
THHR54	5.00x4.00	5.50	6.50	1.50	.25
THH6	6.00	7.00	7.50	2.75	.25
THHR65	6.00X5.00	6.00	7.50	1.87	.25
THH8	8.00	5.00	9.50	1.50	.25
THHR86	8.00x6.00	6.00	9.50	1.38	.25
THH10	10.00	6.00	11.50	2.00	.25
THHR108	10.00x8.00	6.00	1150	1.75	.25

TRIDENT MARINE FIBERGLASS EXHAUST TUBING CONNECTORS

FOR RUBBER EXHAUST HOSE, ELBOWS, HUMP HOSE & REDUCERS

Fire Retardant
Heat Resistant
Made In U.S.A.
(250° F maximum continuous operating temperatures)

Part No.	OD Size	Length
260-2001	2"	4"
260-2121	2-1/2"	4"
260-3001	3"	4"
260-3121	3-1/2"	4"
260-4001	4"	6"
260-4121	4-1/2"	6"
260-5001	5"	6"
260-6001	6"	6"
260-8001	8"	8"
260-10001	0"	8"

- **Trident Marine Wet Exhaust components are designed only for use in water cooled exhaust systems as recommended by ABYC Standard P-1. They are not to be used for engine cooling water circulation or other pressurized systems.**
- These components should be installed far enough from the point of water injection so that maximum continuous perating temperatures at their location does not exceed 250°F. Normal operating temperature of 120° to 185°F result in longer exhaust system life.
- Rubber components and hose should be installed over rigid tubing or pipe with reasonable overlap. They may be lubricated with water and/or detergent only (no oil or grease).
- Each rubber component or hose requires a minimum of 2 stainless steel clamps (1/2" wide min.) be used at each end. We recommend and supply 3/4 wide stainless steel T-Bolt Clamps.
- All components should be supported and strapped the entire length of the system.
- In case of a backfire visually examine the entire system for damage, leaks or separated connections.

TRIDENT MARINE

Nomex® is a Trademark of e.i. DuPont

Trident Marine Hose Chart

PACKING	COLORS	SIZE	APPLICATION & CONSTRUCTION	NAME & CODE#
50' Coil 12-1/2" Length (Boxed on request)	Black with Green Stripe	1" 1-1/2" 1-7/8"	Premium sanitation hose for all head and holding tank connections. Extra thick tube and cover spatially compounded for Max. Resistance to odor permeation and winterizing with anti freeze. Helical wire between 2 ply reinforcement provides excellent flexibility and bead radius.	TRIDENT SANI SHIELD SANITATION HOSE 5 Year Warranty **101**
100' Coil 50' Coil 50' Boxed 25' Boxed	White	5/8" to 1-1/2"	Extra heavy duly sanitation hose of smooth white vinyl. Specially compounded to provide excellent resistance to odor permeation and (FDA) potable water fill. Also for critical bilge, drain scupper, live well, etc. Hard PVC helix gives good flexibility and head radius. No cuffs required.* Don't use with alcohol, anti freeze, petro-chemicals or solvents. Operating temperatures (+10°- +140° F).	TRIDENT SANI SHIELD SANITATION HOSE 3 Year Warranty **148**
250' Coil to 1" 100 Boxed 100' Coil to 1-1/2" 50 Boxed 25 Boxed	Clear	1/4" to 1-1/2"	Non-toxic FDA compounded PVC for many unpressurized, cool water uses like fresh water, drain and vent lines. Operating temperatures (+20°. +150° F). NOT RECOMMENDED FOR BELOW WATERLINE THRU-HULL CONNECTIONS.	TRIDENT CLEAR PVC TUBING- FDA 2 Year Warranty **150**
250' Coil 50' Boxed 25' Boxed	#164 White with BlueTracer #162 Clear with Blue & Red Tracer	3/8" to 1"	Nylon reinforced. FDA compounded PVC for pressurized drinking water systems, etc. No taste or odor. #164 "Cold Water". Max W.P depending on I.D. size @ 70°F: #162=175 PSI, #164=150 PSI. Operating temperatures (+20°- +150° F). NOT RECOMMENDED FOR BELOW WATERLINE THRU-HULL CONNECTIONS.	TRIDENT REINFORCED PVC - FDA 2 Year Warranty **164 - 162**
25' Coupled Coil 50' Coupled Coil	White with Blue Stripe	1/2" & 5/8"	Coupled drinking water hose. Ideal for boat and camper hook-up and washdown. Braided reinforced, solid brass couplings. Maintains flexibility and strength in hot or cold water. Operating temperatures (+20°. +150° F).	MARINE & CAMPER HOSE 1 Year Warranty **166**
Bulk: 5/8" -500', 3/4"-400' 1.1/8"-250', 1-1/4" & 1-1/2"-150' 50' Boxed 6' & 9' Poly Bags	#120 White #121 Black	5/8" to 1-1/2"	Extremely flexible and tough corrugated polyethylene hose for bilge intake end discharge. Cuffed every foot for clamping. Resists oily bilge end sea water. NOT RECOMMENDED FOR BELOW WATERLINE THRU-HULL CONNECTIONS. Operating temperatures (-40°- +200° F).	TRIDENT BILGE HOSE 1 Year Warranty **120 - 126 - 127**
50' Boxed 10' Poly Bag	#400 White #402 Black #410 Black	3" to 4"	Wire supported vinyl ducting resists weather, sunlight and ozone. Won't support flame. 400-402 - Stand, vent ducting 3 mil. 410 H.D. Vent ducting 5 mil Operating temperatures (0°- +160° F).	TRIDENT PVC VENT DUCT 1 Year Warranty **400 - 402 - 410**

* Below water line connections- recommend double clamping and sealing compound.

** Wet exhaust hose connections- recommend double clamping with stainless steel T-boll clamps.

SANITATION

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